

LEXAN™ 172L resin

Polycarbonate

SABIC Innovative Plastics Europe

Message:

Elastollan® 688AN is specifically formulated for extruded profile, sheet and film applications. It exhibits excellent abrasion resistance, toughness, high transparency, low gel, and low yellowness index. It has excellent damping characteristics and outstanding resistance to tear propagation. Elastollan® 688AN conforms to the FDA food contact regulations as described in book 21, section 177.2600 and 177.1680 for both wet and dry food contact applications respectively. Elastollan® 688AN is supplied uncolored in diced or pelletized form.

General Information			
Features	High liquidity		
RoHS Compliance	RoHS compliance		
Appearance	Natural color		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	26.0	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturated, 23°C	0.35	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2350	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	63.0	MPa	ISO 527-2/50
Fracture	50.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	6.0	%	ISO 527-2/50
Fracture	70	%	ISO 527-2/50
Flexural Modulus ¹	2300	MPa	ISO 178
Flexural Stress	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ²			ISO 179/1eA
-30°C	12	kJ/m ²	ISO 179/1eA
23°C	60	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ³			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact ⁴			ISO 180/1A
-30°C	11	kJ/m ²	ISO 180/1A
23°C	60	kJ/m ²	ISO 180/1A

Unnotched Izod Impact Strength ⁵		ISO 180/1U	
-30°C	No Break	ISO 180/1U	
23°C	No Break	ISO 180/1U	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶ (1.8 MPa, Unannealed, 100 mm Span)	127	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	144	°C	ISO 306/B50
--	145	°C	ISO 306/B120
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	7.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	7.0E-5	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 - 80.0	°C	
Rear Temperature	260 - 280	°C	
Middle Temperature	270 - 290	°C	
Front Temperature	280 - 300	°C	
Nozzle Temperature	270 - 290	°C	
Processing (Melt) Temp	280 - 300	°C	
Mold Temperature	80.0 - 100	°C	
NOTE			
1.	2.0 mm/min		
2.	80*10*3 sp=62mm		
3.	80*10*3 sp=62mm		
4.	80*10*3		
5.	80*10*3		
6.	120*10*4 mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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